PTO/SB/08B (08-03) Approved for use through 07/31/2006. OMB 0651-0031

Approved for use through 07/31/2006. OMB 0631-0631
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

With the state of	e required to respond to a collection	Complete if Known
Substitute for form 1449/PTO	Application Number	09/886,959
INFORMATION DISCLOSURE	Filing Date	June 20, 2001
STATEMENT BY APPLICANT	First Named Inventor	Algirdas Avizienis RECEIVED
	Art Unit	2114 0116 1 7 2004
(Use as many sheets as necessary)	Examiner Name	Bryce P. Bonzo
Sheet 1 of 3	Attorney Docket Number	xAAA-02 Technology Center 260

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
-	1	INTEL CORP., Intel's Quality System Databook (January 1998), Order No. 210997-007	
	2	A. AVIZIENIS and Y. HE, "Microprocessor entomology: A taxonomy of design faults in COTS microprocessors", in J. Rushby and [contin'd in next block]	
		C. B. Weinstock, editors, Dependable Computing for Critical Applications 7, IEEE Computer Society Press (1999)	
	3	A. AVIZIENIS and J. P. J. KELLY, "Fault tolerance by design diversity: concepts and experiments", Computer, 17(8):67-80 (August 1984)	
	4	A. AVIZIENIS, "The N-version approach to fault-tolerant software", IEEE Trans. Software Eng., SE11(12):1491-1501 (December 1985)	
· ·	5	M. K. JOSEPH and A. AVIZIENIS, "Software fault tolerance and computer security: A shared problem", in Proc. of the [contin'd in next block]	
		Annual National Joint Conference and Tutorial on Software Quality and Reliability, pages 428-36 (March 1989)	
	6	Y. HE, An Investigation of Commercial Off-the-Shelf (COTS) Based Fault Tolerance, PhD thesis, Computer Science [contin'd in next block]	
		Department, University of California, Los Angeles (September 1999)	
	7	[Please see next sheet.]	

Examiner	Date	
	Considered	
Signature		

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

		uction Ad	ct of 1995, no persons are	e required to respond to a collection	of information unless it complete if Know	contains a valid OMB control number.
Substitute for form 1449/PTO		Application Number	09/886,959			
INFO	ORMATION	DIS	CLOSURE	Filing Date	June 20, 2001	
STATEMENT BY APPLICANT		First Named Inventor	Algirdas Avizien	is DEOFWER		
				Art Unit	2114	HECEIVED
(Use as many sheets as necessary)		Examiner Name	Bryce P. Bonzo	AUG 1 7 2004		
Sheet	2	of	3	Attorney Docket Number	xAAA-02	Technology Center 260

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	7	Y. HE and A. AVIZIENIS, "Assessment of the applicability of COTS microprocessors in high-confidence computing [contin'd in next block]	
		systems: A case study", in Proceedings of ICDSN 2000 (June 2000)	
	8	INTEL CORP., The Pentium II Xeon Processor Server Platform System Management Guide (June 1998), Order No. 243835 001	
	9	A. AVIZIENIS, G. C. GILLEY, F. P. MATHUR, D. A. RENNELS, J. A. ROHR, and D. K. RUBIN. "The STAR (Self- [contin'd in next block]	
		Testing-and-Repairing) computer: An investigation of the theory and practice of fault-tolerant computer design", IEEE Trans. [contin'd again]	
		Comp., C 20(11):1312-21 (November 1971)	
,	10	T. B. SMITH, "Fault-tolerant clocking system", in Digest of FTCS-11, pages 262-64 (June 1981)	
	11	INTEL CORP., P6 Family Of Processors Hardware Developer's Manual (September 1998), Order No. 244001 001	
	12	A. AVIZIENIS, "Toward systematic design of fault-tolerant systems", Computer, 30(4):51-58 (April 1997)	
	13	[Please see next sheet.]	

Cyaminar	Date	
Examiner	Considered	
Signature		f

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy or this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO This collection of information is required by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including to process) an application. Confidentiality is governed by 35 U.S.C. 122 mid 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including to process, and process. Any comments on the gathering, preparing, and submitting the complete application form to the USPTO. The will vary depending upon the individual case. Any comments on the gathering, preparing, and submitting the complete application form to the USPTO. The will vary depending upon the individual case. Any comments on the gathering, preparing, and submitting the complete in formation of time by the USPTO.

The will vary depending upon the individual case. Any comments on the gathering preparing and prepared to take 2 hours to fill the process. The process of the process

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031 AUG 1 3 2004 07 1995, no no U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE re required to respond to a collection of information unless it contains a valid OMB control number. Under the Paperwork Reducted Complete if Known Substitute for form 1449/PTO **Application Number** 09/886,959 INFORMATION DISCLOSURE Filing Date June 20, 2001 STATEMENT BY APPLICANT **First Named Inventor** Algirdas Avizienis Art Unit 2114 (Use as many sheets as necessary) **Examiner Name** Bryce P. Bonzo Attorney Docket Number xAAA-02 Sheet 3 3 of

		NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. ¹	the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. "Special report: Sending astronauts to Mars", Scientific American, 282		
	13			
	14	NASA, "Conference on enabling technology and required scientific developments for interstellar missions", OSS [contin'd in next block]		
		Advanced Concepts Newsletter, page 3 (March 1999)		
		RECEIVED		
		AUG 1 7 2004		
		Technology Center 2600		
	٠.			

Examiner	Date	
Signature	 Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.